

**ABSTRACT OF THE DISCLOSURE**

A method for measuring the responses of sets or subsets of lymphocytes  
5 to mitogens or antigens in a sample is disclosed comprising incubating a  
population of cells with a mitogen or antigen, separating the desired subset of  
cells by means of the interaction of a specific binding reagent that is attached to  
the solid phase with a cell surface determinant that is present on the cell subset  
of interest, lysing the separated cells, and measuring an intracellular component  
10 that is increased if the cells have responded to the stimulus. The method  
provides a convenient, simple, and reliable method for measuring immune  
function in a variety of conditions.